

CLAIMS:

1. A device (1) for projecting images (2) onto a projection surface (3), which device (1) has electro-optical means (29) for generating and emitting light on the basis of image data, and an optical system (9) for directing the light onto the projection surface (3), which optical system (9) has movable redirecting means (8') for the light, which redirecting means (8') include a redirecting part (8a) for the image projection and a separate light-transmitting part (8b) for selective ambience light projection.
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2. A device (1) as claimed in claim 1, wherein the redirecting means (8') are movable between two basic operating positions (A, B), only the redirecting part (8a) for the image projection being active in one basic operating position (A) and the separate light-transmitting part (8b) for the ambience light projection being active in addition to the redirecting part (8a) for the image projection in the other basic operating position (B).
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3. A device (1) as claimed in claim 1, wherein the redirecting means (8') comprise a pivotable redirecting mirror (8) whose redirecting part (8a) is designed to be reflective and is arranged adjacent the separate light-transmitting part (8b).
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4. A device (1) as claimed in claim 3, wherein the separate light-transmitting part (8b) is formed by a semi-transparent mirror.
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5. A device (1) as claimed in claim 1, wherein the separate light-transmitting part (8) is in the form of a refractive element.
6. A device (1) as claimed in claim 1, wherein the electro-optical means (29) have image displacing means (44) for the electronic displacement of the images (2') being projected in the latter's height direction.
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7. A device (1) as claimed in claim 1, wherein the electro-optical means (29) have light-pattern generating means (42) for generating part-images (2b') for the ambience light projection.

5 8. A device (1) as claimed in claim 6 or claim 7, wherein combining means (43) are provided for combining the images (2') that have been displaced in their height direction and the part-images (2b') to form combined images (2, 2b), which combined images (2, 2b) are transmissible via the optical system (9).

10 9. A device (1) as claimed in claim 7, wherein the light-pattern generating means (42) are connected to control means (46), which control means (46) are designed to set light-pattern parameters.

10. A device (1) as claimed in claim 9, wherein the control means (46) are
15 connected to an image analyzer (36) designed to analyze image data, and wherein the control means (46) are designed to transmit control signals to the light-pattern generating means (42) as a function of the result, that is supplied by the image analyzer (36), of an analysis of the image data.

20 11. A device (1) as claimed in claim 9, wherein the control means (46) are connected to an audio-signal analyzer (40) that is designed to analyze audio data, and wherein the control means (46) are designed to transmit control signals to the light-pattern generating means (42) as a function of the result, that is supplied by the audio-signal analyzer (40), of an analysis of the audio data.

25 12. A device (1) as claimed in claim 1, wherein the device (1) is constructed as a floor-standing unit for setting up in a room (5).